E-FLO Family
GPS Data Distribution Hub

Based on the Enhanced DAGR Distributed Device (Enhanced D3)

KEY FEATURES

- Single device replicates four independent AN/PSN-13A (DAGR) receivers, operating as separate units with unique criteria
- Reduce cost by eliminating multiple GPS antennas, DAGRs in ground vehicles and aircraft
- One GB-GRAM or M-Code card for multiple vehicle clients
- No impact to subscriber application software/hardware
- Internal, rechargeable supercapacitor, eliminates need for lithium battery and backup battery requirements
- Four COM2 ports configurable to RS232 or RS422
- Modular and upgradable path to M-Code using existing architecture and components
- Enhanced compatibility with anti-jam antennas operating in any mode
- Upgradable to complete assured positioning, navigation, and timing (A-PNT) system for seamless operations in GPS challenged and denied environments

Route SAASM and/or M-Code GPS Data to Multiple Devices

E-FLO product family is based on the Enhanced DAGR Distributed Device (ED3) that supports new or retrofit programs integrating C4ISR equipment. It removes the burden of multiple SAASM or M-Code GPS receivers and antennas. One E-FLO serves IS-GPS-153 and/or MSID PNT data simultaneously to multiple communication or weapon systems requiring GPS data.

E-FLO products meet the US Army's Enhanced DAGR Distributed Device (ED3) performance requirements. E-FLO products mount into an existing DAGR mount, and utilize standard DAGR accessories.

E-FLO Products Family

E-FLO
PNT distribution hub, containing no GB-GRAM or M-Code card.
Requires tethering to existing DAGR.

E-FLO-G
PNT distribution hub with contractor or government furnished GB-GRAM card.

E-FLO-M
PNT distribution hub with contractor or goverment furnished M-Code card. Capable of communicating MSID or IS-GPS-153 for drop-in retrofit.

Export of GPS Source products may be subject to U.S. export controls. U.S. export license may be required.

M-Code available upon GPS Directorate approval of M-Code receiver cards.

GPSS Operations Enabled

Electrical Input:

28VC Operating Input Voltage
Range: 9V-32V (1.8W - 6.4W)
Antenna Load Current Range: 2-70 mA
Current: 200MA max (3W - 8W)
Assumes 250mA Type II GB-GRAM
(Numbers may be different depending on configuration)
Supports MIL-STD-704G OR MIL-STD-1275D

Electrical Output:

Antenna Output Voltage: 3.3V

Interfaces:

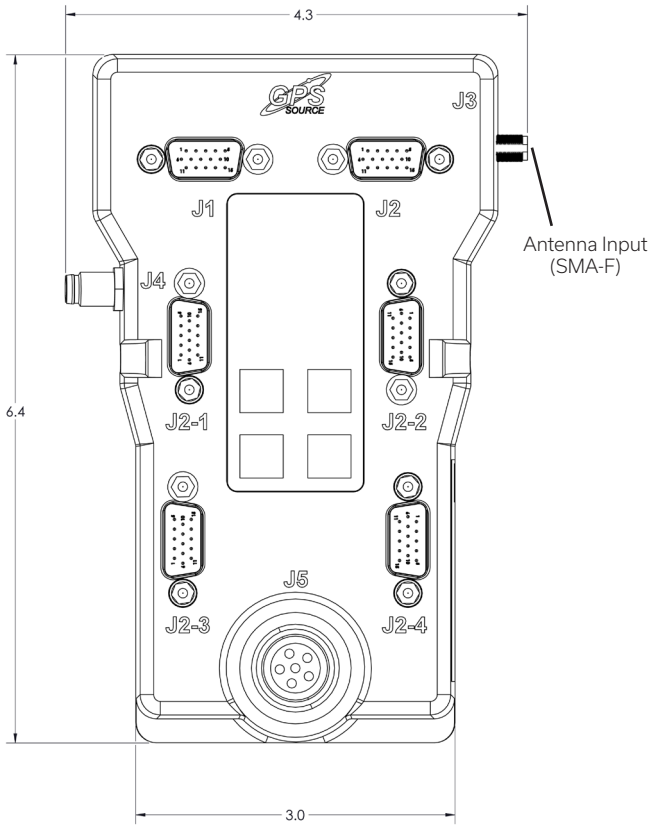
J2-1, J2-2, J2-3, J2-4 ports support both standard TIA/EIA-232 (COM1) serial data ports and standard TIA/EIA-422 (COM2) serial data ports (COM2 ports can also be TIA/EIA-232)

8 Timing Interfaces Available:

1 PPS input
1 PPS UTC, 1PPS T-Mark and 10 PPS output
HAVEQUICK output
One SINCGARS mode 3 interface
DS-101/DS-102 key loading input (SAASM)
DS101 only key loading input (M-Code)

Dual Frequency:

L1/L2 dual frequency tracking
L1 - C/A, P(Y)
L2 - P(Y)



Physical Specifications:

Total Weight: 1 lb.
Overall Size: 3.74 in x 6.37 in x 1.64 in
Fits within footprint of DAGR in DAGR Installation Mount

Compatibility:

IS-GPS-153 and/or MSID
NMEA-0183 output

Environmental:

Operating Temp: -40°C to +71°C
Humidity: 95% Per MIL-STD-810, Method 507.5 Proc. II
Vibration: Per MIL-STD-810, Method 514.6, Proc. I
Altitude: -400m to 3,048m MSL
Crash Safety Shock: 75 g's Per MIL-STD-810G, Method 516.6, Proc. V
Functional Shock: 40 g's Per MIL-STD-810G, Method 516.6, Proc. I
Sand and Dust: Per MIL-STD-810G, Method 510.5, Proc. I & II

AS9100 & ISO 9001 Certified

CCR Registered
CAGE: 1RTJ5
DUNS: 883995677
NAICS: 334220, 334290, 334511, 541330, 541690

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